INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/009270

"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search 12 November, 2004 (12.11.04) Name and mailing address of the ISA/ Japanese Patent Office date and not in conflict with the application but cited to understand the principle or theory underlying the invention cannot be considered novel or cannot be considered novel or cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention of the considered to involv			. 101/01/	2004/003270
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) Int. C1' G1B7/09, 7/095, 7/085, 21/08, 21/10 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitasuyo Shinan Roho 1922–1996 Toroku Jitsuyo Shinan Koho 1994–2004 Rokai Jitsuyo Shinan Roho 1971–2004 Jitsuyo Shinan Toroku Roho 1996–2009 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. A JP 4-49530 A (Matsushita Electric Industrial 1–24 Co., Ltd.), Is Pebruary, 1992 (18.02.92), Full text; Figs. 1 to 3 6 DE 69119144 C 6 EP 462561 A2 6 US 5199015 A1 6 KR 9409244 B A JP 4-345929 A (Matsushita Electric Industrial 1–24 Co., Ltd.), Ol December, 1992 (01.12.92), Full text; Figs. 1 to 7 (Family: none) EX Further documents are listed in the continuation of Box C. See patent family annex. The document published after the international filing date or priority document which hasy throw doubs on priority claim(t) or which is good and the second of the principle or theory underlying the invertion cannot be considered to comment which hasy throw doubs on priority claim(t) or which is good and the comment of particular relevance, the claimed invertion cannot be considered novel or cannot be considered to involve an inventive document such chains done of particular relevance, the claimed invertion cannot be considered novel or cannot be considered and the comment is attention of particular relevance, the claimed invertion cannot be considered and the comment such as a comment of particular relevance, the claimed invertion cannot be considered novel or cannot be considered to involve an inventive document published prior to be international filing date but later than the principle or theory underlying the i	A. CLASSIFIC Int.Cl ⁷	CATION OF SUBJECT MATTER G11B7/09		
Minimum documentation searched (classification system followed by classification symbols) Int.Cl? G1B7/09, 7/095, 7/085, 21/08, 21/10 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Roho 1994-2004 Kokai Jitsuyo Shinan Koho 1971-2004 Jitsuyo Shinan Toroku Koho 1996-2004 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. A JP 4-49530 A (Matsushita Electric Industrial Co., Ltd.), 18 February, 1992 (18.02.92), Full text; Figs. 1 to 3 6 DE 691191144 C & EP 462561 A2 6 US 5199015 A1 & KR 9409244 B A JP 4-345929 A (Matsushita Electric Industrial Co., Ltd.), 01 December, 1992 (01.12.92), Full text; Figs. 1 to 7 (Family: none) Expected staggeries of clied documents: "" document which may throw doubts on priority claim() or which is cited to custablish the publication date of another claim on or other relevance; the claim of other claim of ot	According to Inte	ernational Patent Classification (IPC) or to both nation	nal classification and IPC	
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho 1994-2004 Kokai Jitsuyo Shinan Koho 1971-2004 Jitsuyo Shinan Toroku Koho 1996-2004 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. A JP 4-9530 A (Matsushita Electric Industrial 1-24 Co., Ltd.), 18 February, 1992 (18.02.92), Full text; Figs. 1 to 3 6 DE 69119144 C 6 EP 462561 A2 6 US 5199015 A1 6 KR 9409244 B A JP 4-345929 A (Matsushita Electric Industrial 1-24 Co., Ltd.), 01 December, 1992 (01.12.92), Full text; Figs. 1 to 7 Secular defining the general state of the art which is not considered to invented make the state of the filter of the state and not in onflict with the application but cited to cutshish the published on or after the international filing date or priority claim(s) or which is cited to establish the published make of the art which is not considered to involve an inventive and the priority date claimed invention cannot be considered to involve an inventive and the priority date claimed invention acomot be considered to involve an inventive step when the document is taken alone the priority date claimed invention acomot be considered to involve an inventive step when the document is taken alone the priority date claimed invention acomot be considered to involve an inventive step when the document is taken alone the priority date claimed invention cannot be considered to involve an inventive step when the document is taken alone the priority date claimed invention cannot be considered to involve an inventive step when the document is a constant to the international fining date to take the priority date claimed invention cannot be considered to involve an inventive step when the d				
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INTERNATIONAL SEARCH REPORT

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International application No.
PCT/JP2004/009270

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 5-144025 A (Matsushita Electric Industrial	1-24
••	Co., Ltd.), 11 June, 1993 (11.06.93), Full text; Figs. 1 to 10 (Family: none)	
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